

Fairbanks Resource Agency (FRA)

Auditor: Nortech

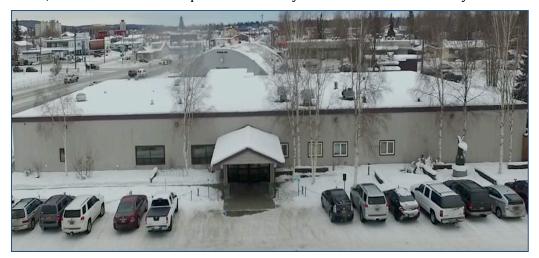
Audit date: September 2014

Fairbanks Resource Agency has provided services to individuals with disabling conditions in the Fairbanks area since 1967. It offers a wide variety of services, including care and support for individuals with disabilities and their families, employment and residential services for adults with developmental disabilities, day services for seniors, caregiver support, and crisis prevention services. FRA has over 300 employees and operates three small businesses that employ 150 people with disabilities each year. FRA serves over 1,000 people annually with its programs.

FRA applied to participate in the pilot cohort for three buildings and its main building, which sees the most use, and was admitted by the selection committee. Nortech conducted Level I and Level II audits for FRA through this program for a total cost of \$7,755.

Mission

FRA is dedicated to assuring that Interior Alaskans with disabilities and their families have equal opportunity to be fully integrated into the community where education, employment, housing, recreation, and family support services are available in the same places, at the same times, and with the same respect afforded any member of the community.



Building

Size: 19,040 ft² **Fuel consumption**

Baseline annual fuel use: 2,017 MBTU
Fuel oil #2 (9,268 gal / 1,279 MBTU)
Electricity (216,232 kWh / 738 MBTU)

Baseline EUI: 106 kBTU/ft²/yr

Baseline annual energy costs: \$74,425

Fuel oil #2 (\$32,958) Electricity (\$41,467)

Audit recommendations (Completed retrofits in black)

Recommendation		Predicted	Actual cost	Contractor	Date	Notes
		costs			completed	
Lighting			Incorporated			
1.	Replace incandescent lamps, exterior	\$54,722	into FRA's	FRA	Ongoing	Lighting replacement is ongoing
	lighting, fluorescent T8 and T12		annual building	maintenance		as fixtures are replaced as they
	lamps with LEDs		maintenance	staff		burn out.
Heating/cooling			budget			
2.	Replace two boilers					FRA received 4 contractor bids
3.	Place boiler circulation pump on	\$4,994	\$90,000	Unknown	2014	for the boiler replacement, and
	timer					chose the lowest bid.
4.	Use programmable thermostats to	\$6,600				
	incorporate a night temperature					The predicted cost associated
	setback					with replacing the two existing boilers represents the difference
Kitchen						in cost of purchasing two typical
5.	Replace old refrigerator with Energy	\$750	\$1,000	FRA	2015	boilers compared to two energy
	Star qualified unit			maintenance		efficient boilers.
				staff		
		Total:	Total:			
		\$67,066	\$91,000			